

CLAIMS

1. A hemodialysis port comprising:
 - a housing defining a plurality of interconnected chambers, each said chamber having a bottom portion and sidewall portions;
 - a septum attached to said side wall portions of each said chamber enclosing said chamber; and
 - a spring mechanism disposed between said sidewalls and said septum and applying an inward force on said septum.
2. A port as claimed in claim 1, wherein said septum comprises a material having a durometer between 30 and 55.
3. A port as claimed in claim 1, wherein said spring mechanism having sufficient force to close an opening in said septum caused by a needle or other medical instrument.
4. A port as claimed in claim 1, said bottom portion further comprising a titanium insert covering at least a portion of said bottom portion of said port.
5. A port as claimed in claim 1, wherein said housing comprising a flexible material having a flexibility for a particular patient's anatomical structure.
6. A port as claimed in claim 1, wherein said septum comprising silicon rubber.
7. A port as claimed in claim 1, wherein said ports are connected together to a manifold to provide a single inlet/outlet to and from said ports.
8. A method for performing hemodialysis, comprising the steps of:
 - inserting at least one multi-port device under the skin of a patient;
 - inserting a needle and sheath through said skin and into one of said ports of said multi-port device;

1 removing said needle from within said sheath, leaving said sheath in said port; and
 2 inserting a cannula and obturator into said sheath and drawing from said cannula blood
 3 from within said port.

4 9. A method as claimed in claim 8, said method further comprising the step of removing
 5 said cannula and obturator and said sheath from said port and said skin.

6 10. A hemodialysis method comprising the steps of:
 7 inserting a multi-port device under the skin of a patient;
 8 inserting a hollow needle into one of the ports of said multi-port device through the skin
 9 of said patient;
 10 inserting a guidewire through said needle and into said port;
 11 removing said needle from said port and said patient; and
 12 inserting an introducer over said guidewire and into said port.